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NOTICE OF ALLOWANCE AND FEE(S) DUE

003017

7590

08/13/2002

BARLOW, JOSEPHS & HOLMES, LTD. 101 DYER STREET 5TH FLOOR PROVIDENCE, RI 02903 EXAMINER

CHANG, YEAN HSI

ART UNIT CLASS-SUBCLASS

361-687000

2835
DATE MAILED: 08/13/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIR	
09/726.141	11/29/2000	Kevin A. McCullough	P00345-US1	6555

TITLE OF INVENTION: THERMALLY CONDUCTIVE ELECTRONIC DEVICE CASE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$640	\$300	\$940	11/13/2002

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

B. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status.
 See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE Commissioner for Patents

Washington, D.C. 20231

(703)746-4000 **Fax**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for

maintenance fee notification	ns.	· 2.00 1, 0, (2, 0p.			,		
003017 7	CE ADDRESS (Note: Legibly mark- 590 08/13/2002 EPHS & HOLMES,		llock I)	Fee(s) Transmitt accompanying pa	e of mailing can only be used for al. This certificate cannot pers. Each additional paper, s lust have its own certificate of n	be used for any other such as an assignment or	
101 DYER STREE 5TH FLOOR PROVIDENCE, R			I hereby certify to United States Post envelope addresse	Certificate of Mailing or Transhat this Fee(s) Transmittal is al Service with sufficient posta do to the Box Issue Fee address USPTO, on the date indicated by	being deposited with the ge for first class mail in an above, or being facsimile		
						(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE	FIRS	T NAMED INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/726,141	11/29/2000	Ke	evin A. McCullou	ıgh	P00345-US1	6555	
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nonprovisional	YES	\$640	· · ·	\$300	\$940	11/13/2002	
EXAMI	NER	ART UNIT	CLASS-SUBCLASS				
CHANG, Y	EAN HSI	2835	361-68700	00			
Address form PTO/SB/1 "Fee Address" indicati PTO/SB/47; Rev 03-02 Number is required. 3. ASSIGNEE NAME AND PLEASE NOTE: Unless a	ion (or "Fee Address" Indict or more recent) attached. Use D RESIDENCE DATA TO un assignee is identified bel to the USPTO or is being s	ation form se of a Customer BE PRINTED ON THE ow, no assignee data wi ubmitted under separate	or agents OR, single firm (he attorney or ag registered pater is listed, no nan PATENT (print of ll appear on the cover. Completic	patent. Inclusion of	ne name of a r a registered s of up to 2 s. If no name 3 assignee data is only appropriat T a substitute for filing an assign	te when an assignment has	
Please check the appropriate 4a. The following fee(s) are		•	on the patent) ment of Fee(s):	individual (☐ corporation or other private g	roup entity 🔾 government	
☐ Issue Fee		☐ A ch	eck in the amoun	t of the fee(s) is encl	osed.		
☐ Publication Fee			-	d. Form PTO-2038			
☐ Advance Order - # of C	opies	☐ The Opposit	Commissioner is Account Number	hereby authorized by	y charge the required fee(s), or one conclude the control of this	credit any overpayment, to form).	
Commissioner for Patents is	requested to apply the Issu	e Fee and Publication Fe	ee (if any) or to re	-apply any previous	sly paid issue fee to the applicat	ion identified above.	
(Authorized Signature)		(Date)					
NOTE; The Issue Fee an other than the applicant; interest as shown by the re	d Publication Fee (if requi a registered attorney or a cords of the United States F	red) will not be accepte gent; or the assignee of atent and Trademark Of	ed from anyone other party in fice.				
completed application for case. Any comments on	ation is required by 37 CFI by the public which is to y is governed by 35 U.S.C. tes to complete, including me to the USPTO. Time we the amount of time you this burden, should be sentice, U.S. Department of CCOMPLETED FORMS Washington, DC 20231.	gathering, preparing, and ill vary depending upon require to complete the chief information to the Chief Information.	the individual				
Under the Paperwork Recollection of information u							



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09/726,141	11/29/2000	Kevin A. McCullough	P00345-US1	6555	
003017	7590 08/13/2002		EXAMINI	EXAMINER	
BARLOW, JOS	EPHS & HOLMES, LTD.		CHANG, YEAN HSI		
101 DYER STRE 5TH FLOOR	E I		ART UNIT	PAPER NUMBER	
PROVIDENCE, F	RI 02903		2835	<u> </u>	
			DATE MAILED: 08/13/2002		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)



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09/726,141	11/29/2000	Kevin A. McCullough	P00345-US1 65		
003017 7590 08/13/2002			EXAMINER		
BARLOW, JOSEPHS & HOLMES, LTD.			CHANG, YEAN HSI		
101 DYER STREET 5TH FLOOR		·	ART UNIT	PAPER NUMBER	
PROVIDENCE, RI		_	2835		
UNITED STATES		D	DATE MAILED: 08/13/2002		

Notice of Fee Increase on October 1, 2002

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2002, then the amount due may be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on October 1, 2002. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Notice of Proposed Rulemaking, 67 Fed. Reg. 30634, 30636 (May 7, 2002). Although a change to the amount of the publication fee is not currently proposed for October 2002, if the issue fee or publication fee is to be paid on or after October 1, 2002, applicant should check the USPTO web site for the current fees before submitting the payment. The USPTO Internet address for the fee schedule is: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after October 1, 2002 (or mailed with a certificate of mailing on or after October 1, 2002), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Effective October 1, 2002, 37 CFR 1.18 is proposed to be revised to change the patent issue fees as set forth below. As stated above, the final fees may be a different amount, and applicant should check the web site given above when paying the fee.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

By a small entity (Sec. 1.27(a))--\$655.00 By other than a small entity--\$1,310.00

(b) Issue fee for issuing a design patent:

By a small entity (Sec. 1.27(a))--\$235.00 By other than a small entity--\$470.00

(c) Issue fee for issuing a plant patent:

By a small entity (Sec. 1.27(a))--\$315.00 By other than a small entity--\$630.00

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)				
	09/726,141	MCCULLOUGH ET	ΔI			
Notice of Allowability	Examiner	Art Unit	T.E.			
	Yean-Hsi Chang	2835				
The MAILING DATE of this communication and						
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communication GHTS. This application is subject	pplication. If not includent will be mailed in due	ed course. THIS			
1. This communication is responsive to <u>amendment filed on C</u>	11 July 2002.					
2. The allowed claim(s) is/are <u>1,3-5,7-9,11 and 12</u> .						
3. \square The drawings filed on <u>29 November 2000</u> are accepted by	the Examiner.					
 4. ☐ Acknowledgment is made of a claim for foreign priority und a) ☐ All b) ☐ Some* c) ☐ None of the: 	der 35 U.S.C. § 119(a)(d) or (f).					
 Certified copies of the priority documents have 	been received.					
2. Certified copies of the priority documents have	been received in Application No.					
3. Copies of the certified copies of the priority doc	cuments have been received in this	s national stage applica	ition from the			
International Bureau (PCT Rule 17.2(a)).						
* Certified copies not received:						
5. Acknowledgment is made of a claim for domestic priority u	nder 35 U.S.C. § 119(e) (to a prov	isional application).				
(a) The translation of the foreign language provisional a	pplication has been received.					
6. Acknowledgment is made of a claim for domestic priority u	nder 35 U.S.C. 壯 120 and/or 121.					
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of	this communication to file a reply this application. THIS THREE-MC	complying with the requ	uirements noted EXTENDABLE.			
7. A SUBSTITUTE OATH OR DECLARATION must be subminFORMAL PATENT APPLICATION (PTO-152) which gives reas			NOTICE OF			
8. CORRECTED DRAWINGS must be submitted.						
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review (PT	O-948) attached				
1) hereto or 2) to Paper No	Ç ,	,				
(b) ☐ including changes required by the proposed drawing of	correction filed . which has	been approved by the E	Examiner.			
(c) ☐ including changes required by the attached Examiner'						
Identifying indicia such as the application number (see 37 CFR 1. of each sheet. The drawings should be filed as a separate paper	Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the top margin (not the back) of each sheet. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.					
9. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FOR T	sit of BIOLOGICAL MATERIAL HE DEPOSIT OF BIOLOGICAL M	must be submitted. I ATERIAL.	Note the			
Attachment(s)						
1 Notice of References Cited (PTO-892)	2☐ Notice of Inforr	mal Patent Application ((PTO-152)			
3 Notice of Draftperson's Patent Drawing Review (PTO-948)		mary (PTO-413), Paper	•			
5 Information Disclosure Statements (PTO-1449), Paper No		nendment/Comment				
7 Examiner's Comment Regarding Requirement for Deposit 8 Examiner's Statement of Reasons for Allowance						
of Biological Material	9 <u>□</u> Other .	701				
		DARREN SCHUBERG				
		VISORY PATENT EXAM				
U.S. Patent and Trademark Office	TEC	HWOLOGY CENTER 28	00 /			

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Art Unit: 2835

DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1, 3-5, 7-9 and 11-12 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: The best prior art of record, Pavlovic (US 6,055,158) and MacDonald, Jr. et al. (US 6,195,267 B1), taken alone or in combination, fails to teach or fairly suggest a case for dissipating heat from an electronic device, comprising: an electronic circuit board, a heat generating electronic component disposed on said circuit board, and a housing being made of a net-shaped moldable thermally conductive composite material of a polymer base matrix with thermally conductive filler, and in thermal communication with said electronic component with heat being dissipating through said housing as claimed in claims 1, 5, and 9. Claims 3-4, 7-8, and 11-12 are dependent claims from allowable independent claims 1, 5, and 9, respectively.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Correspondence

Art Unit: 2835

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yean-Hsi Chang whose telephone number is (703) 306-5798. The examiner can normally be reached on 07:30-16:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (703) 308-4815. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-3431 for regular communications and for After Final communications. There are RightFAX numbers and provide the fax sender with an auto-reply fax verifying receipt by the USPTO: Before-Final (703-872-9318) and After-Final (703-872-9319).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 305-8558.

Yean-Hsi Chang Patent Examiner Art Unit: 2835 August 9, 2002

TECHNOLOGY CENTER 2800

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